

**Bapuji Educational Association (Regd.)
Bapuji Institute of Engineering & Technology, Davangere.
Department of Computer Science and Engg.**

List of Projects Funded by VTU

Funding Agency	Year	Principal Investigator	Title of the Project Proposal	Amount Sanctioned
Innovative Projects Financial Assistance, VTU Belagavi	2021-22	Dr. Nirmala C R and Rachana G S	Smart solid waste management with IoT and Machine learning	7500/-
		Prof Preethi B	Krushimitra	6000/-
	2020-21	Gangadharappa S	Pesticides Suggestion for diseased Plants using machine Learning	15,439.00
		Radhika Patil	Weed detection in Agricultural field Using CNN	15,439.00
	2019-20	Dr. Nirmala C. R	Human voice generation model using deep learning	5000/-
		Dr. Roopa G M	Block chain based microfinance for farmers	5000/-
	2018- 19	Dr. Ashoka K.	Water supply management using IoT	5000/-
		Prof. Mallikarjuna S B	Real time drowsiness detection and alerting system using ML Techniques	5000/-
		Dr. Pradeep N	Automatic Text Summarizer	5000/-

Bapuji Educational Association (Regd)
Bapuji Institute of Engineering & Technology, Davangere – 4

Statement showing the details of the VTU sponsored Bill Payment for the students

Project Proposal

Title of Project: KRUSHI MITRA

<u>USN</u>	<u>Students:</u>	<u>Guide</u>
4BD18CS045	MEGHAMALA C	PROF.PREETHI B
4BD18CS105	SUJAN G	
4BD18CS101	SRIRAKSHA N S	
4BD19CS070	ROHIT K S	

Sanctioned Budget

Sl.No	Budget Head	Sanctioned Amount
I	Materials / Consumables	4000/-
II	Travel	1200/-
III	Miscellaneous (Report)	800/-
	Total :	6000/-

Bills for Payment:

I Materials/Consumables

Sl.No	Name of the Firm	Bill No./Date
1	Appzenith Software Solutions	Invoice No.:1 30/06/2022
	Total	4000.00

II Travel

Sl.No	Name of the Firm	Bill No./Date
1	Maruthi Service Station	32582 10/11/2021
	Total	1200.00

III Report

Sl.No	Name of the Firm	Bill No./Date
1	Veerendra Digital Xerox	40 10/05/2022
	Total	800.00
	Grand Total:	6000.00
	Cheque may issue in the name of MEGHAMALA C for Rs. 6000.00	

Preethi.B
01/07/2022

SIGNATURE OF THE GUIDE

U. N. R.

HOD

PRINCIPAL

Dr. Nirmala C R

M.Tech.(CS&E), Ph.D.,
Professor and Head
Dept. of Computer Science & Engineering
Bapuji Institute of Engineering & Technology
DAVANGERE-577004. (Karnataka-India)

PRINCIPAL
Bapuji Institute of Engg & Technology
DAVANGERE-4

Bapuji Educational Association (Regd)
Bapuji Institute of Engineering & Technology, Davangere – 04
Statement showing the details of the VTU FUNDS Bill Payment for the students.

Title of Project : Smart Solid Waste Management Using ML and IoT

<u>USN</u>	<u>Students :</u>	<u>Guides</u>
4BD18CS017	CHE TAN B B	Dr. NIRMALA C R
4BD18CS027	GURUKIRAN M H	
4BD18CS031	K YASHODA	
4BD19CS035	KUNAL P V	

Sanctioned Budget

S.N	Budget Head	Sanctioned Amount
I	Materials / Consumables	7500.00
	Total :	7500.00


Bills for Payment :

I Materials/Consumables

S.N	Name of the Firm	Bill No./Date	Bill Amount
1.	Raspberry pi	30/12/2021	4000.00
2.	Picamera, SD card	30/12/2021	1500.00
3.	Miscellaneous	1505 2022	2000.00
		Total :	7500.00

Cheque may issue in the name of **GURUKIRAN M H**


SIGNATURE OF THE GUIDE





HOD


PRINCIPAL

	<p>Visvesvaraya Technological University "JnanaSangama" Belagavi:590018 Karnataka, India. Tele: 0831-249822,2405454</p>
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VTU Sponsored Student Project Proposal Format

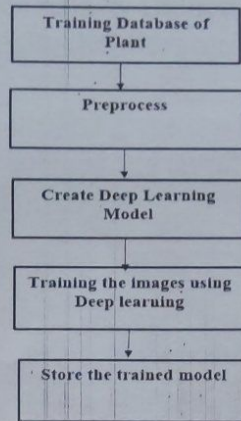
01	Academic Year :	2020-2021	
02	Semester:	8	
03	Name of the College :	Bapuji Institute of Engineering and Technology	
04	Branch:	Computer Science & Engineering	
05	Project Title:	Pesticides Suggestion For Diseased Plants Using Machine Learning	
06	Project Discipline:	agriculture	
07	Principal	Name:	Dr.H B Aravind
		Contact No:	8861864398
		Email id:	principal@bietdvg.edu
08	HOD	Name:	Dr.Nirmala C R
		Contact No:	9740770377
		Email id:	nirmal.cr@gmail.com
09	Project Guide	Name:	Prof.Gangadharappa S
		Contact No:	9964282158
		Email id:	Gangadhar.sarthi@gmail.com
10	Project Co-Guide(if any)	Name:	
		Contact No:	
		Email id:	
11	Project Committee coordinator (identified by the college):	Name:	Dr.Roopa G M
		Contact No:	
		Email id:	

12	Name of project group Members	
1. Group leader and Member		
Name: Veena M R		
USN No:4BD18CS419		
Contact No: 9480311619		
Email id: veenarmaani@gmail.com		
2.Member		
Name: Ksheera P B		
USN No:4BD16CS044		
Contact No:8296375670		
Email id: ksheerapb98@gmail.com		
3.Member		
Name: Teju G M		
USN No: 4BD17CS114		
Contact No: 7349506846		
Email id: tejugm18@gmail.com		

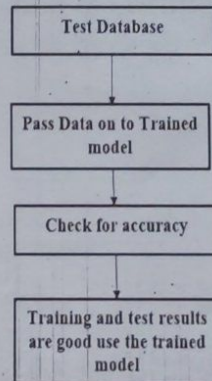
4. Member		
Name:	Preethi R	
USN No:	4BD18CS411	
Contact No:	9535775952	
Email id:	<u>preethir122@gmail.com</u>	
5. Member		Passport size photo
Name:		
USN No:		
Contact No:		
Email id:		

13	Processing Fee Details	Bank name:
		Branch :
		DD number with date:
		OR
		Cheque no with date:
14	Scope / Objectives of the project:	<ul style="list-style-type: none"> • To preprocess the image for the enhancement of the data • To apply efficient classification technique • To predict plant disease and to recommend pesticide based on the disease
15	Methodology of Work: (including diagram,flow chart	1. Training Phase :

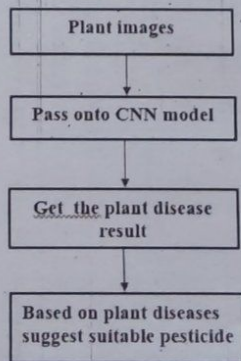
and design calculation)



2. Testing Phase



3. Current Working Phase



16	Expected Outcomes of the Project:	The created datasets of diseased and healthy leaves are collectively trained under random forest to classify the diseased and healthy images. Overall, this project gives the clear way to detect disease and suggest the suitable pesticides disease of plants.
17	Application of the project:	1). Detecting leaves with disease. 2). Quantify area that is affected. 3). Finding the shape of affected area. 4). Determine color of the affected area. 5). Texture analysis by determining size and shape of leaf.
18	Budget details with Materials required:	Material/Components a) i5 Processor = 6,950 b) Ram 8GB = 4,390 c) Hard Disk 120GB = 2,599 d) Report = 500 e) Travel = 1000 Total = 15,439
19	Date of commencement of the project:	21-11-2020
20	Probable date of completion of the project:	20-07-2021

21	Duration of project work: 8 Months
22	Pert chart for completion of the project in said duration as per planned activities:

Sl .No	Activities Planned	1Month	2Month / Week	3Month / Week	4Month / Week	5Month / Week	6Month / Week
01	Literature review						
02	Planning/ Designing						
03	Assembly/ Fabrication Work						
04	Final Testing						
05	Result & Calculation/ Conclusion						
06	Preparation Of Report & Submission						

DECLARATION BY THE STUDENTS

We, the project group members hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge. We undertake to inform VTU, of any changes there in the project title, students name will be intimated immediately. In case, any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it.

We are aware that the project group has to exhibit / demonstrate the project for evaluation in the VTU Regional centre and for exhibition at VTU, Belagavi. If the project group fails to attend the evaluation in Regional centre and for Exhibition in VTU Belagavi, the sponsored project amount will be returned back to VTU immediately

We also hereby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	Veena M R	Veena.M.R 8/05/2021
02	Ksheera P B	Ksheera.P.B.

03	Teju G M	Teju GM 09/05/2021
04	Preethi R	Preethi R 8/5/2021
05		

Web Site : www.bietdvg.edu
E-mail - Principal : principal@bietdvg.edu
E-mail - Director : director@bietdvg.edu

Office : 08192 - 221461
Director : 08192 - 222245
Fax : 08192 - 223261
Resi. : 08192 - 221578
Principal : 08192 - 220938
Fax : 08192 - 222016
Resi. : 08192 - 260942



Bapuji Educational Association (Regd.)

Bapuji Institute of Engineering & Technology

Post Box No. 325, DAVANGERE - 577 004, Karnataka - India.

Year of Establishment - 1979

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)
Accredited by NAAC with 'A' grade and recognised by the Institution of Engineers (I), Kolkata.

ಬಾಪುಜಿ ಇಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ದಾವಣಗೆರೆ - 577 004.

Ref. No. : BIET / CS / 420 / 2021-22

Date: 11/06/2021

ENDORSEMENT

This is to certify that

1. Veena M R – 4BD18CS419
2. Ksheera P B – 4BD16CS044
3. Teju G M – 4BD17CS114
4. Preethi R – 4BD18CS411

Are bonafide students of Department in Computer Science and Engineering. of our institution. If the project proposal submitted by these students under VTU Sponsored Student Project Proposal is selected by VTU, we will provide the required laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps that the project group will exhibit / demonstrate their project in the Regional center and for exhibition at VTU, Belagavi. If the student group fails to attend the evaluation in Regional centre and exhibition at VTU Belagavi, the supported project amount will be returned back to VTU immediately.

Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of the Principal with Seal and date
Name: Gangadharappa S	Name: Dr. Nirmla C R	Name: Dr. Aravind H B PRINCIPAL

Dr. Nirmla C R

M Tech
Professor and Head
Dept. of Computer Science
Bapuji Institute of Engg
DAVANGERE-577004





Bapuji Institute of Engg. & Technology
DAVANGERE-577 004



Visvesvaraya Technological University
 "JnanaSangama"
 Belagavi: 590018
 Karnataka, India.
 Tele: 0831-24 98225 ,240 54 54

VTU Sponsored Student Project Proposal Format

01	Academic Year :	2017-2021	
02	Semester :	8	
03	Name of the College :	Bapuji Institute Of Engineering And Technology	
04	Branch:	Computer Science & Engineering	
05	Project Title :	Weed Detection in Agricultural Fields Using CNN	
06	Project Discipline:	Deep Learning	
07	Principal	Name:	Dr. H B Aravind
		Contact No:	8861864398
		Email id:	principal@bietdvg.edu
08	HOD	Name:	Dr Nirmala CR
		Contact No:	974077037
		Email id:	nirmal.cr@gmail.com
09	Project Guide	Name:	Prof. Radhika Patil
		Contact No:	9901701777
		Email id:	ps.radhika@gmail.com
10	Project Co-Guide (If any)	Name:	
		Contact No:	
		Email id:	Dr. Roopa GM
11	Project Committee coordinator (Identified by the college) :	Name:	+91 81238 88668
		Contact No:	
		Email id:	

12	Name of project group Members	
	I.Group leader and Member	
	Name: Aparna	
	USN No. : 4BD17CS016	
	Contact No: 9108520466	
	Email id: aparnarai2015 Hgmail.com	
	2 .Member	
	Name: Madhumati JB	
	USN No. 4BD17CS058	
	Contact No: 7337663925	
	Email id: madhu.j.b9@gmail.com	
	3 .Member	
	Name: NS Shravani	
	USN No. :4BD17CS067	
	Contact No:8880645901	
Email id:nsathyashravani122 Hgmail.com		
4.Member		
Na me: Shreya Karan		
USN No.: 4BD17CS101		
Contact No: 6205891135		
Email id : shreyakaran014Hgmail.com		
5. Member(If any)		
Name:	Passport size photo	
USN No.:		
Contact No:		

	Email id:	
13	Processing Fee Details	Bank name:
		Branch
		DD number with date OR Cheque no with date
14	Scope / Objectives of the project:	Our proposed solution will be available online through web application for farmers and can be adapted in future for being used into mobile applications or embedded equipment. An accurate deep learning model for crops and weeds classification can definitely assist farmers in maximizing crop yields and consequently minimizing the losses

15	Methodology of work: (Including diagram, flow chart and design calculations)	<p>Methodology is based on image classification using CNN.</p> <pre> graph TD A[Data set collection] --> B[Data Preprocessing] B --> C[Configure and applying ImageDataGenerator to train and test set] C --> D[Initializing the model] D --> E[Optimizing the model] E --> F[Saving the model] G[DATA COLLECTION] --> H[PRE-PROCESSING] H --> I[FEATURE-EXTRACTION] I --> J[CNN MODEL] J --> K[TEST AND TRAIN DATA] J --> L[RESULT ANALYSIS] </pre> <p>Figure: Block Diagram</p> <p>Figure : Flow Chart</p>
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16	Expected Outcome of the project:	A full fledged web application which will allow farmers to predict with the given image t be weed or not in soybean crop
17	Application of the project:	Our proposed solution will be available online through web application for farmers and can be adapted in future for being used into mobile applications or embedded equipment.
18	Budget details with Materials required:	<i>Material/Components</i> (1.) i5 processor = 6,950 (2.) RAM 8GB = 4,390 (3.) Hard Disk 120GB = 2,599 (4.) Report = 500 (5.) Travel = 1000. Total = 15,439

19	Date of commencement of the Project	October 2020
20	Probable date of completion of the project	June 2021
21	Duration of project work	8 months
22	Pert chart for completion of the project in said duration as per planned activities:	


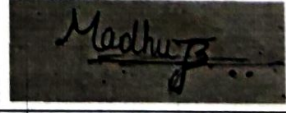


Sl .No	Activities Planned	1Month	2Month / Week	3Month / Week	4Month / Week	5Month / Week	6Month / Week
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03	Assembly/ Fabrication Work						
04	Final Testing						
05	Result & Calculation/ Conclusion						
06	Preparation Of Report & Submission						

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We also hereby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	Aparna	
02	Madhumati JB	
03	N S Shravani	 Date: 19.05.2021
04	Shreya Karan	

D



Bapuji Institute of Engineering & Technology

Post Box No. 325, DAVANGERE - 577 004, Karnataka - India.

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ಬಾಪುಜಿ ಇಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ದಾವಣಗೆರೆ - 577 004.

Ref. No. : BIET / CS/A21/ 2021-22




Date...11/06/2021.....

ENDORSEMENT

This is to certify that

- 1] Aparna - 4BD17CS016
- 2] Madhumati J B - 4BD17CS058
- 3] N S Shravani - 4BD17CS067
- 4] Shreya Karan - 4BD17CS101

Are bonafide students of Department in Computer Science and Engineering. of our institution. If the project proposal submitted by these students under VTU Sponsored Student Project Proposal is selected by VTU, we will provide the required laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps that the project group will exhibit / demonstrate their project in the Regional center and for exhibition at VTU, Belagavi. If the student group fails to attend the evaluation in Regional centre and exhibition at VTU Belagavi, the supported project amount will be returned back to VTU immediately.

Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of the Principal with Seal and date
		
Name: Radhika Patil	Name: Dr. Nirmala C R	Name: Dr. Aravind H B PRINCIPAL

Dr. Nirmala C R

M.Tech.(CS&E), Ph.D.

Professor and Head

Dept. of Computer Science & Engineering

Bapuji Institute of Engineering & Technology

DAVANGERE-577004, (Karnataka-India)

Bapuji Institute of Engg. & Technology
DAVANGERE-577 004

Bapuji Educational Association (Regd.)
Bapuji Institute of Engineering and Technology, Davangere -577004

Statement showing the details of the Bill Payment for the VTU Project Funding Scheme 2020.

Project Proposal : **VTU Project Funding Scheme**
Title of Project : **Human Voice Generation Model Using Deep Learning**

USN	Student	Guides
4BD16CS018	Ashmit Prasad	Dr. Nirmala C R
4BD16CS052	Megha S	
4BD16CS056	Naman Anand	
4BD16CS082	Sharath P J	

Sanctioned Budget: 5000/-

Bills for Payment :

Sl No.	Particulars	Bill No. And Date	Amount	
1.	Printouts and Project Report Binding	04/06/2020	1,600/-	
2.	Google Cloud Service	Jan 13, 2020	2,000/-	
3.	Travel Charges to attend Training	Nov 28, 2019	2120/-	
4.	Miscellaneous	---	500/-	
(Amount limited to Rs. 5000 only)				
			Grand Total :	6,220/-

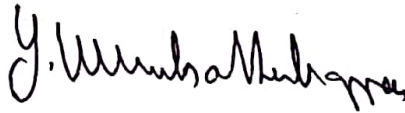
Cheque may be issued in the name of **Sharath P J** for Rs. 5,000/-


Project Coordinator


Program Coordinator


Principal
25.3.2021




29.3.21

Bapuji Educational Association (Regd.)
Bapuji Institute of Engineering and Technology, Davangere -577004

Statement showing the details of the Bill Payment for the Institution fund of Students Project
2020.

Project Proposal : VTU Project Scheme Fund
Title of Project : Blockchain Based Microfinance for Farmers.

USN	Student	Guides
4BD16CS067	Rahul Sharma	Dr. Roopa G M
4BD16CS083	Sheshadri M	
4BD16CS088	Shubham Abhishek	
4BD16CS100	Suhas R A	

Sanctioned Budget: 5000/-

Bills for Payment :

Sl No.	Particulars	Bill Dated	Amount	
1.	Printouts and Project Report Binding	10/06/2020	1600/-	
2.	Google Cloud Service	20/02/2020	2000/-	
3.	Travelling Expense	05/01/2020	2120/-	
4.	Miscellaneous	---	1000/-	
(Amount limited to Rs. 5000 only)			Grand Total :	6,720/-

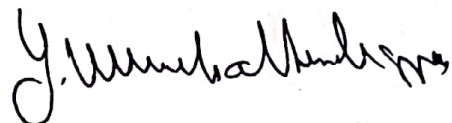
Cheque may issued in the name of **Suhas R A** for Rs. 5,000/-


Project Guide


Program Coordinator


Principal



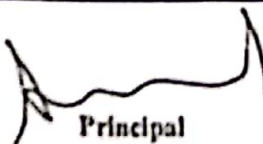

29.3.21

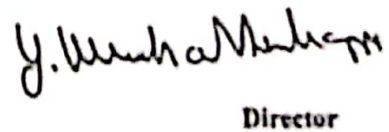
Subject: Submission of bills towards the project proposals submitted for VTU funding under Innovative Projects- Reg.
 Ref: VTU/BGM/Aca-os/Gen-cirs/2019-20/10300 dated 11-03-2020

With reference to the above subject, I am happy to inform you that the following project proposals submitted under Innovative projects to VTU Belagavi have received the grants. Hence the respective HoDs/Guides of the departments of the selected projects are informed to submit the GST bills towards the projects latest by 25/02/2021.

S.No	Title of the Project	Department	Sanctioned Amount
✓ 1	Development of pesticidal verniwash from selected Medicinal plants	BT ✓	5,000/- ✓
✓ 2	Cultivation of Sweet potato plantlets by plant tissue culture technique		5,000/- ✓
3	Performance characteristics of concrete with Alcotone-An experimental study	Civil ✓	5,000/- ✓
4	An experimental investigation on Partial replacement of cement with Magnesium carbonate on performance of concrete		5,000/- ✓
5	Investigations on performance of Adhesive produced from Cashew nut shell	Chemical	5,000/-
6	Human voice generation model using deep learning	CS & E	5,000/-
7	Blockchain based Microfinance for Farmers		5,000/-
8	Design and fabrication of Smart Jacket	E & I	5,000/-
9	Detection and prevention of water leakage in drip irrigation using Internet of Things	IS& E ✓	5,000/- ✓
10	Intelligent hexapod synchronized waste collection system		5,000/- ✓
11	Development of portable Biochar production unit	Mechanical ✓	5,000/- ✓
12	Design and fabrication of Hybrid solar cell for E-Vehicle charging		5,000/- ✓
13	Design of UAV for spraying Fertilizers and Pesticides.	E & C	5,000/-
14	Fire Extinguishing Robot		5,000/-

A. G. Shankar
 Dean R & D


 Principal


 Director

Handwritten notes:
 ✓
 15-2-2021

DEPARTMENT OF
BIOTECHNOLOGY
 BIET, Davangere-4.
 Inward No: ... 07.1.27...
 Date: ... 15/2/2021 ...

UTU Funded Project

2. Project Title: Driver Drowsiness Detection and Alert system using Machine Learning

Sl. No.	USN	Student Name	Name of the Guide
1.	4BD15CS040	Fouziya Tabasum	Prof. S B Mallikarjuna Associate Professor Dept. of CS&E, BIET.
2.	4BD15CS074	Priyadarshini S	
3.	4BD15CS084	Rashmidevi P	
4.	4BD15CS111	Sushmitha J Phatak	

Budget Details:

Sl. No.	Budget	Amount
1.	Materials/consumables	3500.00 ✓
2.	Report Printing	1500.00 ✓
Total		5000.00 ✓

PAID & CANCELLED

checked for
correct
Accounting
7-9-19

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Project Guide

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HOD

Dr. S. B. Mallikarjuna, M. D.
Dept. of Computer Science & Engineering
Papaji Institute of Engineering & Technology
DAVANGERE-577 004.

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to galeg

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Bapuji Educational Association (Regd.)
Bapuji Institute of Engineering & Technology
Department of Computer Science & Engineering

Statements showing the details of project selected and funded by VTU-2019 along with the expenditure made.

1. Project Title: Automatic Text Summarization

Sl. No.	USN	Student Name	Name of the Guide
1.	4BD15CS088	Sachin S S	Dr. Pradeep N Associate Professor Dept. of CS&E, BIET.
2.	4BD15CS098	Shreyas K S	
3.	4BD15CS120	Vadiraj H S	

Budget Details:

Sl. No.	Budget	Amount
1.	Cloud Services (IaaS)	2000.00 ✓
2.	Travel	1500.00 ✓
3.	Report Xerox/Printing/binding	1500.00 ✓
4.	Miscellaneous	500.00
Total		5000.00

*Checked & found correct
Amounts
10-10-19*

Pradeep
Project Guide

Ranfa
Project Coordinator

*A/c to
10/10/19*

VOID & CANCELLED
Rs. 5000/- > Rs. 100/-
Chq. No. 034110 Dt. 10/10/19
Acc. No. 101010
Director

e
Principal

H
HOD

Department of Computer Science & Engineering
Bapuji Institute of Engineering & Technology
DANANGERE-577 004.

A/c
e
5/8/2019